

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/584,482
Source: IFWP
Date Processed by STIC: 7/7/06

ENTERED



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/584,482

DATE: 07/07/2006
TIME: 14:52:51

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\07072006\J584482.raw

3 <110> APPLICANT: HAGIWARA, Masatoshi
 5 <120> TITLE OF INVENTION: Method for controlling SR protein
 phosphorylation, and antiviral agents
 6 whose active ingredients comprise agents that control SR protein
 activity
 8 <130> FILE REFERENCE: 6235-76051-01
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/584,482
 C--> 11 <141> CURRENT FILING DATE: 2006-06-23
 13 <150> PRIOR APPLICATION NUMBER: JP 2003-435085
 14 <151> PRIOR FILING DATE: 2003-12-26
 16 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/019393
 17 <151> PRIOR FILING DATE: 2004-12-24
 19 <160> NUMBER OF SEQ ID NOS: 5
 21 <170> SOFTWARE: PatentIn version 3.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 1965
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
 28 <220> FEATURE:
 29 <221> NAME/KEY: CDS
 30 <222> LOCATION: (1)..(1965)
 31 <223> OTHER INFORMATION:
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 34 atg gag cgg aaa gtg ctt gcg ctc cag gcc cga aag aaa agg acc aag 48
 35 Met Glu Arg Lys Val Leu Ala Leu Gln Ala Arg Lys Lys Arg Thr Lys
 36 1 5 10 15
 38 gcc aag aag gac aaa gcc caa agg aaa tct gaa act cag cac cga ggc 96
 39 Ala Lys Lys Asp Ala Gln Arg Lys Ser Glu Thr Gln His Arg Gly
 40 20 25 30
 42 tct gct ccc cac tct gag agt gat cta cca gag cag gaa gag gag att 144
 43 Ser Ala Pro His Ser Glu Ser Asp Leu Pro Glu Gln Glu Glu Ile
 44 35 40 45
 46 ctg gga tct gat gat gag caa gaa gat cct aat gat tat tgt aaa 192
 47 Leu Gly Ser Asp Asp Asp Glu Gln Glu Asp Pro Asn Asp Tyr Cys Lys
 48 50 55 60
 50 gga ggt tat cat ctt gtg aaa att gga gat cta ttc aat ggg aga tac 240
 51 Gly Gly Tyr His Leu Val Lys Ile Gly Asp Leu Phe Asn Gly Arg Tyr
 52 65 70 75 80
 54 cat gtg atc cga aag tta ggc tgg gga cac ttt tca aca gta tgg tta 288
 55 His Val Ile Arg Lys Leu Gly Trp Gly His Phe Ser Thr Val Trp Leu
 56 85 90 95
 58 tca tgg gat att cag ggg aag aaa ttt gtg gca atg aaa gta gtt aaa 336
 59 Ser Trp Asp Ile Gln Gly Lys Lys Phe Val Ala Met Lys Val Val Lys
 60 100 105 110

62 agt gct gaa cat tac act gaa aca gca cta gat gaa atc cg^g ttg ctg 384

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63	Ser	Ala	Glu	His	Tyr	Thr	Glu	Thr	Ala	Leu	Asp	Glu	Ile	Arg	Leu	Leu	
64		115					120						125				
66	aag	tca	gtt	cgc	aat	tca	gac	cct	aat	gat	cca	aat	aga	gaa	atg	gtt	432
67	Lys	Ser	Val	Arg	Asn	Ser	Asp	Pro	Asn	Asp	Pro	Asn	Arg	Glu	Met	Val	
68		130					135						140				
70	gtt	caa	cta	cta	gat	gac	ttt	aaa	ata	tca	gga	gtt	aat	gga	aca	cat	480
71	Val	Gln	Leu	Leu	Asp	Asp	Phe	Lys	Ile	Ser	Gly	Val	Asn	Gly	Thr	His	
72	145						150				155		160				
74	atc	tgc	atg	gta	ttt	gaa	gtt	ttg	ggg	cat	cat	ctg	ctc	aag	tgg	atc	528
75	Ile	Cys	Met	Val	Phe	Glu	Val	Leu	Gly	His	His	Leu	Leu	Lys	Trp	Ile	
76							165				170		175				
78	atc	aaa	tcc	aat	tat	cag	ggg	ctt	cca	ctg	cct	tgt	gtc	aaa	aaa	att	576
79	Ile	Lys	Ser	Asn	Tyr	Gln	Gly	Leu	Pro	Leu	Pro	Cys	Val	Lys	Lys	Ile	
80							180			185		190					
82	att	cag	caa	gtg	tta	cag	ggt	ctt	gat	tat	tta	cat	acc	aag	tgc	cgt	624
83	Ile	Gln	Gln	Val	Leu	Gln	Gly	Leu	Asp	Tyr	Leu	His	Thr	Lys	Cys	Arg	
84							195			200		205					
86	atc	atc	cac	act	gac	att	aaa	cca	gag	aac	atc	tta	ttg	tca	gtg	aat	672
87	Ile	Ile	His	Thr	Asp	Ile	Lys	Pro	Glu	Asn	Ile	Leu	Leu	Ser	Val	Asn	
88							210			215		220					
90	gag	cag	tac	att	cgg	agg	ctg	gct	gca	gaa	gca	aca	gaa	tgg	cag	cga	720
91	Glu	Gln	Tyr	Ile	Arg	Arg	Leu	Ala	Ala	Glu	Ala	Thr	Glu	Trp	Gln	Arg	
92	225						230			235		240					
94	tct	gga	gct	cct	ccg	cct	tcc	gga	tct	gca	gtc	agt	act	gct	ccc	cag	768
95	Ser	Gly	Ala	Pro	Pro	Pro	Ser	Gly	Ser	Ala	Val	Ser	Thr	Ala	Pro	Gln	
96							245			250		255					
98	cct	aaa	cca	gct	gac	aaa	atg	tca	aag	aat	aag	aag	aag	aaa	ttg	aag	816
99	Pro	Lys	Pro	Ala	Asp	Lys	Met	Ser	Lys	Asn	Lys	Lys	Lys	Lys	Lys	Lys	
100							260			265		270					
102	aag	aag	cag	aag	cgc	cag	gca	gaa	tta	cta	gag	aag	cga	atg	cag	gaa	864
103	Lys	Lys	Gln	Lys	Arg	Gln	Ala	Glu	Leu	Leu	Glu	Lys	Arg	Met	Gln	Glu	
104							275			280		285					
106	att	gag	gaa	atg	gag	aaa	gag	tcg	ggc	cct	ggg	caa	aaa	aga	cca	aac	912
107	Ile	Glu	Glu	Met	Glu	Lys	Glu	Ser	Gly	Pro	Gly	Gln	Lys	Arg	Pro	Asn	
108							290			295		300					
110	aag	caa	gaa	tca	gag	agt	cct	gtt	gaa	aga	ccc	ttg	aaa	gag	aac	960	
111	Lys	Gln	Glu	Glu	Ser	Glu	Ser	Pro	Val	Glu	Arg	Pro	Leu	Lys	Glu	Asn	
112	305						310			315		320					
114	cca	cct	aat	aaa	atg	acc	caa	gaa	aaa	ctt	gaa	gag	tca	agt	acc	att	1008
115	Pro	Pro	Asn	Lys	Met	Thr	Gln	Glu	Lys	Leu	Glu	Glu	Ser	Ser	Thr	Ile	
116							325			330		335					
118	ggc	cag	gat	caa	acg	ctt	atg	gaa	cgt	gat	aca	gag	ggt	ggt	gca	gca	1056
119	Gly	Gln	Asp	Gln	Thr	Leu	Met	Glu	Arg	Asp	Thr	Glu	Gly	Gly	Ala	Ala	
120							340			345		350					
122	gaa	att	aat	tgc	aat	gga	gtg	att	gaa	gtc	att	aat	tat	act	cag	aac	1104
123	Glu	Ile	Asn	Cys	Asn	Gly	Val	Ile	Glu	Val	Ile	Asn	Tyr	Thr	Gln	Asn	
124							355			360		365					
126	agt	aat	aat	gaa	aca	ttg	aga	cat	aaa	gag	gat	cta	cat	aat	gct	aat	1152
127	Ser	Asn	Asn	Glu	Thr	Leu	Arg	His	Lys	Glu	Asp	Leu	His	Asn	Ala	Asn	

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128	370	375	380	
130	gac tgt gat gtc caa aat ttg aat cag gaa tct agt ttc cta agc tcc			1200
131	Asp Cys Asp Val Gln Asn Leu Asn Gln Glu Ser Ser Phe Leu Ser Ser			
132	385	390	395	400
134	caa aat gga gac agc agc aca tct caa gaa aca gac tct tgt aca cct			1248
135	Gln Asn Gly Asp Ser Ser Thr Ser Gln Glu Thr Asp Ser Cys Thr Pro			
136	405	410		415
138	ata aca tct gag gtg tca gac acc atg gtg tgc cag tct tcc tca act			1296
139	Ile Thr Ser Glu Val Ser Asp Thr Met Val Cys Gln Ser Ser Ser Thr			
140	420	425		430
142	gta ggt cag tca ttc agt gaa caa cac att agc caa ctt caa gaa agc			1344
143	Val Gly Gln Ser Phe Ser Glu Gln His Ile Ser Gln Leu Gln Glu Ser			
144	435	440		445
146	att cgg gca gag ata ccc tgt gaa gat gaa caa gag caa gaa cat aac			1392
147	Ile Arg Ala Glu Ile Pro Cys Glu Asp Glu Gln Glu Gln Glu His Asn			
148	450	455		460
150	gga cca ctg gac aac aaa gga aaa tcc acg gct gga aat ttt ctt gtt			1440
151	Gly Pro Leu Asp Asn Lys Gly Lys Ser Thr Ala Gly Asn Phe Leu Val			
152	465	470		475
154	480			480
155	aat ccc ctt gag cca aaa aat gca gaa aag ctc aag gtg aag att gct			1488
156	Asn Pro Leu Glu Pro Lys Asn Ala Glu Lys Leu Lys Val Lys Ile Ala			
157	485	490		495
158	1536			
159	gac ctt gga aat gct tgt tgg gtg cac aaa cat ttc act gaa gat att			
160	Asp Leu Gly Asn Ala Cys Trp Val His Lys His Phe Thr Glu Asp Ile			
161	500	505		510
162	caa aca agg caa tat cgt tcc ttg gaa gtt cta atc gga tct ggc tat			1584
163	Gln Thr Arg Gln Tyr Arg Ser Leu Glu Val Leu Ile Gly Ser Gly Tyr			
164	515	520		525
165	aat acc cct gct gac att tgg agc acg gca tgc atg gcc ttt gaa ctg			1632
166	Asn Thr Pro Ala Asp Ile Trp Ser Thr Ala Cys Met Ala Phe Glu Leu			
167	530	535		540
168	1680			
169	gcc aca ggt gac tat ttg ttt gaa cct cat tca ggg gaa gag tac act			
170	Ala Thr Gly Asp Tyr Leu Phe Glu Pro His Ser Gly Glu Glu Tyr Thr			
171	545	550		555
172	1728			
173	560			
174	cga gat gaa gat cac att gca ttg atc ata gaa ctt ctg ggg aag gtg			
175	Arg Asp Glu Asp His Ile Ala Leu Ile Ile Glu Leu Leu Gly Lys Val			
176	565	570		575
177	1776			
178	cct cgc aag ctc att gtg gca gga aaa tat tcc aag gaa ttt ttc acc			
179	Pro Arg Lys Leu Ile Val Ala Gly Lys Tyr Ser Lys Glu Phe Phe Thr			
180	580	585		590
181	1824			
182	aaa aaa ggt gac ctg aaa cat atc acg aag ctg aaa cct tgg ggc ctt			
183	Lys Lys Gly Asp Leu Lys His Ile Thr Lys Leu Lys Pro Trp Gly Leu			
184	595	600		605
185	1872			
186	ttt gag gtt cta gtg gag aag tat gag tgg tcg cag gaa gag gca gct			
187	Phe Glu Val Leu Val Glu Lys Tyr Glu Trp Ser Gln Glu Glu Ala Ala			
188	610	615		620
189	1920			
190	ggc ttc aca gat ttc tta ctg ccc atg ttg gag ctg atc cct gag aag			
191	Gly Phe Thr Asp Phe Leu Leu Pro Met Leu Glu Leu Ile Pro Glu Lys			
192	625	630		635
				640

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194 aga gcc act gcc gag tgt ctc cg^g cac cct tgg ctt aac tcc 1965
195 Arg Ala Thr Ala Ala Glu Cys Leu Arg His Pro Trp Leu Asn Ser
196 645 650 655
199 <210> SEQ ID NO: 2
200 <211> LENGTH: 655
201 <212> TYPE: PRT
202 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 2
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208 Ala Lys Lys Asp Lys Ala Gln Arg Lys Ser Glu Thr Gln His Arg Gly 209 20 25 30
211 Ser Ala Pro His Ser Glu Ser Asp Leu Pro Glu Gln Glu Glu Ile 212 35 40 45
214 Leu Gly Ser Asp Asp Asp Glu Gln Glu Asp Pro Asn Asp Tyr Cys Lys 215 50 55 60
217 Gly Gly Tyr His Leu Val Lys Ile Gly Asp Leu Phe Asn Gly Arg Tyr 218 65 70 75 80
220 His Val Ile Arg Lys Leu Gly Trp Gly His Phe Ser Thr Val Trp Leu 221 85 90 95
223 Ser Trp Asp Ile Gln Gly Lys Lys Phe Val Ala Met Lys Val Val Lys 224 100 105 110
226 Ser Ala Glu His Tyr Thr Glu Thr Ala Leu Asp Glu Ile Arg Leu Leu 227 115 120 125
229 Lys Ser Val Arg Asn Ser Asp Pro Asn Asp Pro Asn Arg Glu Met Val 230 130 135 140
232 Val Gln Leu Leu Asp Asp Phe Lys Ile Ser Gly Val Asn Gly Thr His 233 145 150 155 160
235 Ile Cys Met Val Phe Glu Val Leu Gly His His Leu Leu Lys Trp Ile 236 165 170 175
238 Ile Lys Ser Asn Tyr Gln Gly Leu Pro Leu Pro Cys Val Lys Lys Ile 239 180 185 190
241 Ile Gln Gln Val Leu Gln Gly Leu Asp Tyr Leu His Thr Lys Cys Arg 242 195 200 205
244 Ile Ile His Thr Asp Ile Lys Pro Glu Asn Ile Leu Leu Ser Val Asn 245 210 215 220
247 Glu Gln Tyr Ile Arg Arg Leu Ala Ala Glu Ala Thr Glu Trp Gln Arg 248 225 230 235 240
250 Ser Gly Ala Pro Pro Pro Ser Gly Ser Ala Val Ser Thr Ala Pro Gln 251 245 250 255
253 Pro Lys Pro Ala Asp Lys Met Ser Lys Asn Lys Lys Lys Leu Lys 254 260 265 270
256 Lys Lys Gln Lys Arg Gln Ala Glu Leu Leu Glu Lys Arg Met Gln Glu 257 275 280 285
259 Ile Glu Glu Met Glu Lys Glu Ser Gly Pro Gly Gln Lys Arg Pro Asn 260 290 295 300
262 Lys Gln Glu Glu Ser Glu Ser Pro Val Glu Arg Pro Leu Lys Glu Asn 263 305 310 315 320
265 Pro Pro Asn Lys Met Thr Gln Glu Lys Leu Glu Ser Ser Thr Ile

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266	325	330	335
268	Gly Gln Asp Gln Thr Leu Met Glu Arg Asp Thr Glu Gly Gly Ala Ala		
269	340	345	350
271	Glu Ile Asn Cys Asn Gly Val Ile Glu Val Ile Asn Tyr Thr Gln Asn		
272	355	360	365
274	Ser Asn Asn Glu Thr Leu Arg His Lys Glu Asp Leu His Asn Ala Asn		
275	370	375	380
277	Asp Cys Asp Val Gln Asn Leu Asn Gln Glu Ser Ser Phe Leu Ser Ser		
278	385	390	395
280	Gln Asn Gly Asp Ser Ser Thr Ser Gln Glu Thr Asp Ser Cys Thr Pro		
281	405	410	415
283	Ile Thr Ser Glu Val Ser Asp Thr Met Val Cys Gln Ser Ser Ser Thr		
284	420	425	430
286	Val Gly Gln Ser Phe Ser Glu Gln His Ile Ser Gln Leu Gln Glu Ser		
287	435	440	445
289	Ile Arg Ala Glu Ile Pro Cys Glu Asp Glu Gln Glu Gln Glu His Asn		
290	450	455	460
292	Gly Pro Leu Asp Asn Lys Gly Lys Ser Thr Ala Gly Asn Phe Leu Val		
293	465	470	475
295	Asn Pro Leu Glu Pro Lys Asn Ala Glu Lys Leu Lys Val Lys Ile Ala		
296	485	490	495
298	Asp Leu Gly Asn Ala Cys Trp Val His Lys His Phe Thr Glu Asp Ile		
299	500	505	510
301	Gln Thr Arg Gln Tyr Arg Ser Leu Glu Val Leu Ile Gly Ser Gly Tyr		
302	515	520	525
304	Asn Thr Pro Ala Asp Ile Trp Ser Thr Ala Cys Met Ala Phe Glu Leu		
305	530	535	540
307	Ala Thr Gly Asp Tyr Leu Phe Glu Pro His Ser Gly Glu Glu Tyr Thr		
308	545	550	555
310	Arg Asp Glu Asp His Ile Ala Leu Ile Ile Glu Leu Leu Gly Lys Val		
311	565	570	575
313	Pro Arg Lys Leu Ile Val Ala Gly Lys Tyr Ser Lys Glu Phe Phe Thr		
314	580	585	590
316	Lys Lys Gly Asp Leu Lys His Ile Thr Lys Leu Lys Pro Trp Gly Leu		
317	595	600	605
319	Phe Glu Val Leu Val Glu Lys Tyr Glu Trp Ser Gln Glu Glu Ala Ala		
320	610	615	620
322	Gly Phe Thr Asp Phe Leu Leu Pro Met Leu Glu Leu Ile Pro Glu Lys		
323	625	630	635
325	Arg Ala Thr Ala Ala Glu Cys Leu Arg His Pro Trp Leu Asn Ser		
326	645	650	655
329	<210> SEQ ID NO: 3		
330	<211> LENGTH: 2058		
331	<212> TYPE: DNA		
332	<213> ORGANISM: Homo sapiens		
334	<220> FEATURE:		
335	<221> NAME/KEY: CDS		
336	<222> LOCATION: (1)..(2058)		
337	<223> OTHER INFORMATION:		

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq# : 5

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L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:33 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:31
L:339 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:337